



low

humidity

alarms

voltage

static
pressure

door
contact

temperature

pH

high

pulses

Select Environments

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Warranty service

Warranty service may be obtained from the Phason office location indicated in the user manual or service booklet.

Service and technical support

Phason will be happy to answer all technical questions that will help you use your OMNI-Select system. Before contacting Phason, collect the following information:

- ◆ A description of the problem
- ◆ A description of what you were doing before the problem occurred
- ◆ The model(s) and serial number(s) of the devices
- ◆ Any messages displayed by the software

My dealer's name:

How to contact my dealer:

Street/PO Box _____

City _____

State/Province _____

Zip/Postal _____

Phone _____

Fax _____

E-mail _____

Web site _____



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About the manual

This manual describes the features of the Select™ Environments module for OMNI-Select and how to use them. In addition to reading this manual, you should be familiar with the following.

- ◆ Microsoft Windows™ – how to perform basic Windows functions such as opening and closing windows, finding and opening files, saving and closing files, as well as using a mouse and keyboard.
- ◆ OMNI hardware and equipment – devices such as Local Environment Monitors. You should also be familiar with the equipment connected to them, such as temperature probes, sensors, and so on.

Styles

The following styles are used in the manual.

- ◆ All buttons and tabs are **bolded**.
For example, click **OK** to save the changes.
- ◆ All filenames and directories are in a monospace font.
For example, the reports directory in Windows is `C:\Users\<username>\Documents\phason\OmniSelect\Reports\`.

Hint/tip



This is a hint or tip. It contains helpful information that may make it easier for you to set up or use Select Environments.

Note



This is a note. It contains important information that may help you better understand Select Environments.

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Chapter 1: Introducing Select Environments

Introducing Select Environments

Select Environments allows you to monitor critical conditions anywhere at your site. Select Environments works with the Local Environment Monitors (LEMs) and continuously monitors critical conditions such as power failure, humidity, temperature, pH, pressure, door contacts, and much, much more.

Select Environments allows you to monitor and report on **conditions that are important to your facility**. Using multiple Local Environment Monitors, you can monitor conditions in every area of your site.

Select Environments includes a status viewer, a chart, and three reports. These tools are useful for tracking down problems that have occurred in a zone, analyzing the effects of different ventilation strategies, monitoring environmental conditions, and more.

Select Environments features

- ◆ “Near real-time” information collection and display
- ◆ Information at a glance
- ◆ Easy-to-read status displays
- ◆ Easy-to-use charting and reporting tools
- ◆ Programmable alarms with notification and logging

Information display

- ◆ **Status Viewer** displays the current conditions for each input on an Environment Monitor. With the Status viewer, you can quickly determine if there are any problems in a zone.
- ◆ **Charts** display historical information for your various sensors and show up to two different types of analog data on a single chart. One of the most important features is the ability to view the cause and effect of different inputs. For example, you can see how opening a door affects other conditions such as temperature or humidity.
- ◆ **History reports** give you exact data for the selected date range. History reports are an excellent way to keep historical records of conditions so you can compare them over time.

- ◆ **Configuration and settings reports** list configuration and settings for an Environment Monitor. Configuration reports provide easy reference and a backup in case of data loss.

For more information about Select Environments viewers, charts, and reports, read **Chapter 3: Analyzing** data on page 24.

OMNI-Select requirements

For Select Environments to work properly, your system must meet specific computer requirements. For the latest computer and system requirements, visit www.phason.ca or contact Phason Customer Support at **204-233-1400** or support@phason.ca.

Installing and logging in to OMNI-Select

Installing OMNI-Select

OMNI-Select has an installation wizard that guides you through the installation.

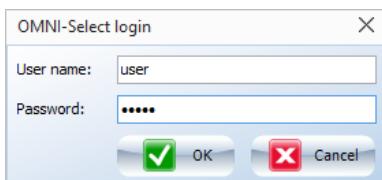
To install Select Environments

1. Insert the installation CD or USB into your computer.
The Installation Wizard should start automatically. If it does not start automatically, find and start the file `Install_OmniSelect.exe` on the CD or USB drive.
2. Follow the instructions on the screen.

Logging in to OMNI-Select

All OMNI-Select users must have a user name and password to access settings, configuration, viewers, and reports. Security helps prevent unauthorized access and allows OMNI-Select to track which users have performed certain tasks within the program.

Each time you open the Main window—the one with the **Settings/Configuration/Reports** buttons at the top—the *OMNI-Select login* window displays.





- ◊ The default username is `sysadmin` and the password is `omniadmin`. For more information about user names and passwords, see the **OMNI-Select user manual**.
- ◊ Set your computer to restart and log in after a power failure. For more information, read **Appendix C: Automatically start OMNI Select after a power outage** on page 39.

To access settings, configuration, viewers, and reports, you need to log in to OMNI-Select. To log in to OMNI-Select, you must have a username and password.

To log in to OMNI-Select

1. On the Communication Center, click **Login**.
The *OMNI-Select login* window displays.
2. Beside User name, type your user name.
3. Beside Password, type your password.
4. Click **OK**.

Shutting down OMNI-Select

Your computer should be running at all times. When your computer is not running, the OMNI-Select services are not running. When the OMNI-Select services are not running, equipment operates at its last settings, but OMNI-Select cannot collect information or update settings. If you have to shut down your computer, **start it again as soon as possible**.

Do not use power management settings such as "sleep" or "hibernate" mode. When your computer is in these modes, OMNI-Select does not function properly.



- ◊ Set your computer to restart and log in after a power failure. For more information, read **Appendix C: Automatically start OMNI Select after a power outage** on page 39.
- ◊ **Protect yourself from short power interruptions and surges by installing a UPS** (uninterruptible power supply). You can get a UPS at your local electronics store.

Select Environments windows

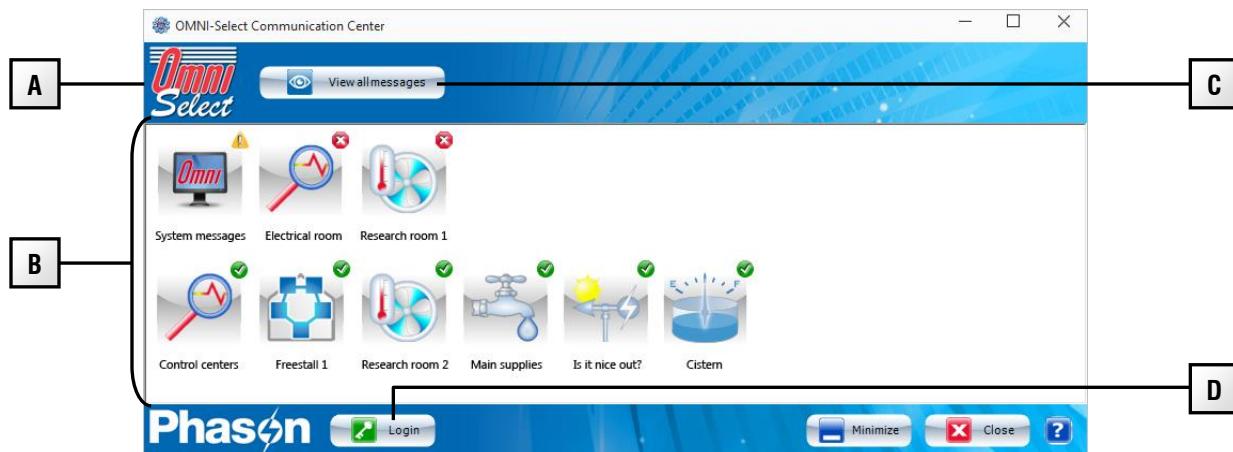
The following section is an overview of the main Select Environments windows.

Communication Center

The Communication Center is the only area of OMNI-Select that is available to all users, regardless of their access. The Communication Center is also the gateway to the Main window, where you can access settings, configuration, and reports.

The Communication Center displays all communication, status, and alarm messages from OMNI-Select modules and devices. Check the Communication Center regularly to ensure systems functioning normally and to see if there are problems or potential problems.

The Communication Center uses a message system to notify you of all new alarm problems and events that have occurred for each OMNI device. Acknowledge the messages each time you visit the display, as they are dealt with. Any new alarm problems will display on the device's icon, indicating that something needs your attention.



- A** This button opens a window that displays version information.
- B** This area lists your devices and their status. To see a list of communication and system messages for a specific device, click on that device.
- C** This button opens a window that displays all messages for all devices.
- D** This button opens the OMNI-Select login window, which is where you enter your username and password to access other areas of the system.

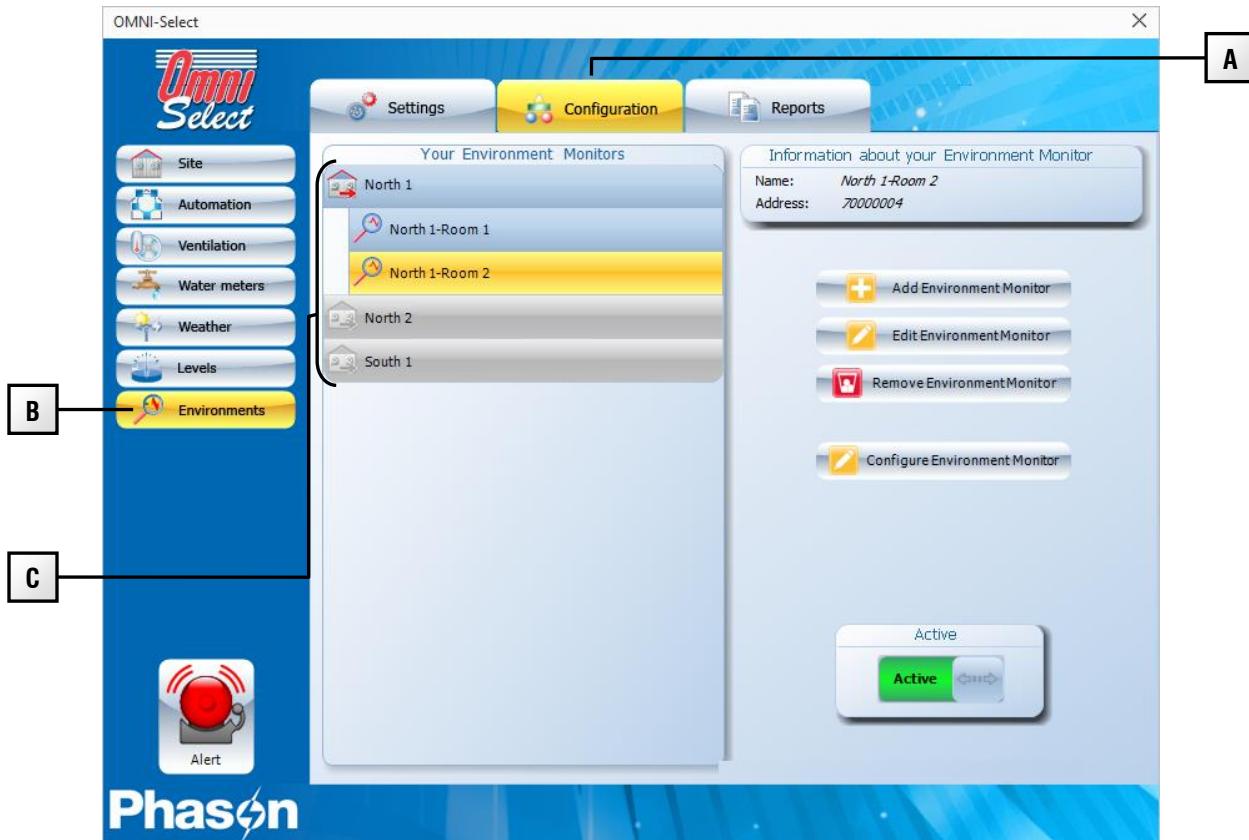


An alarm needs to be acknowledged and the condition must return to normal before it will trigger again.

For more information about logging in to OMNI-Select, read **Installing and logging in to OMNI-Select** on page 6. For more information about the Communication Center, see *Monitoring the Communication Center* in the **OMNI-Select user manual**.

Configuration window

The *Configuration* window is where you configure the structure of your site, as well as Select Environments options you configure seldom or only once at the beginning.

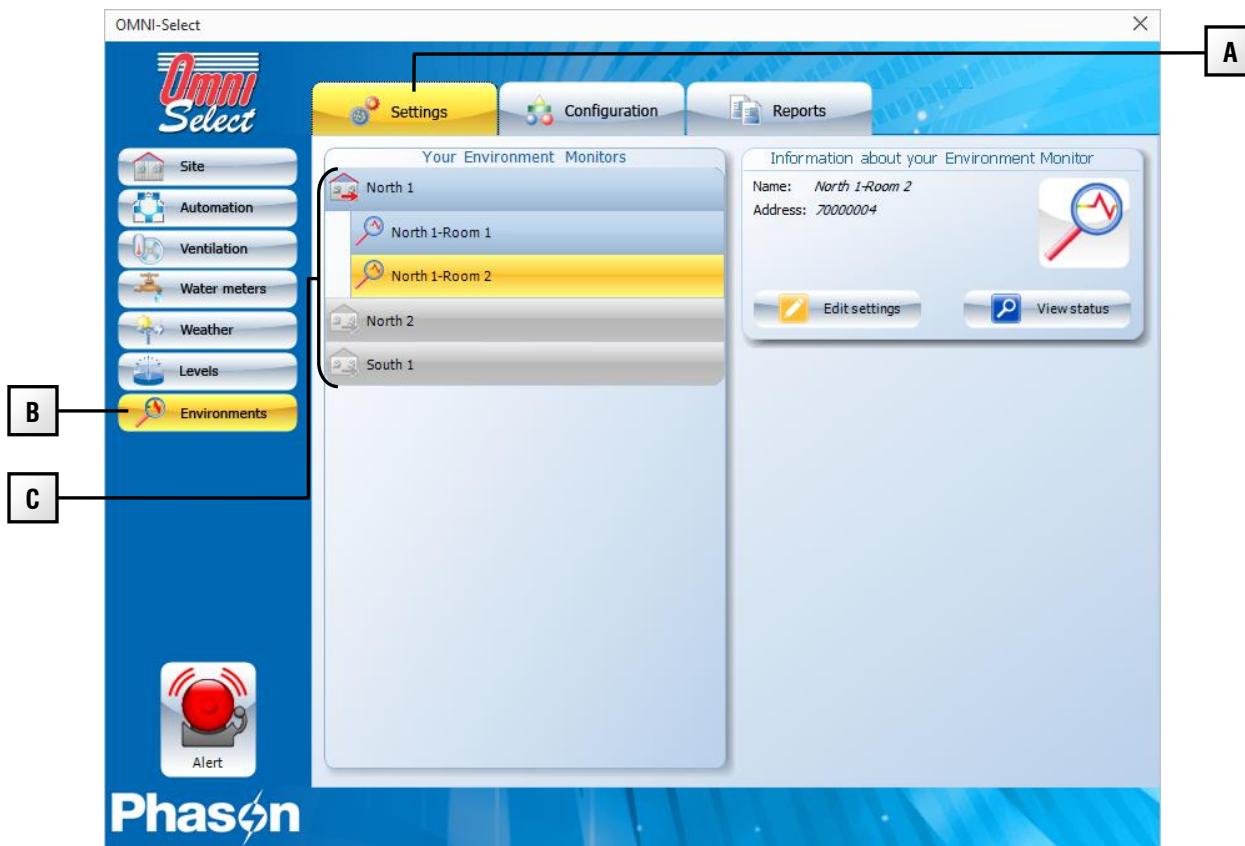


- A** This button displays the configuration window.
- B** This button displays the configuration for Select Environments.
- C** This is a list of Environment Monitors in each building at your site and where you select the device you want to configure.

For more information about the *Configuration* window and configuring Environment Monitors, Read **Chapter 2: Configuring Select Environments** on page 12.

Settings window

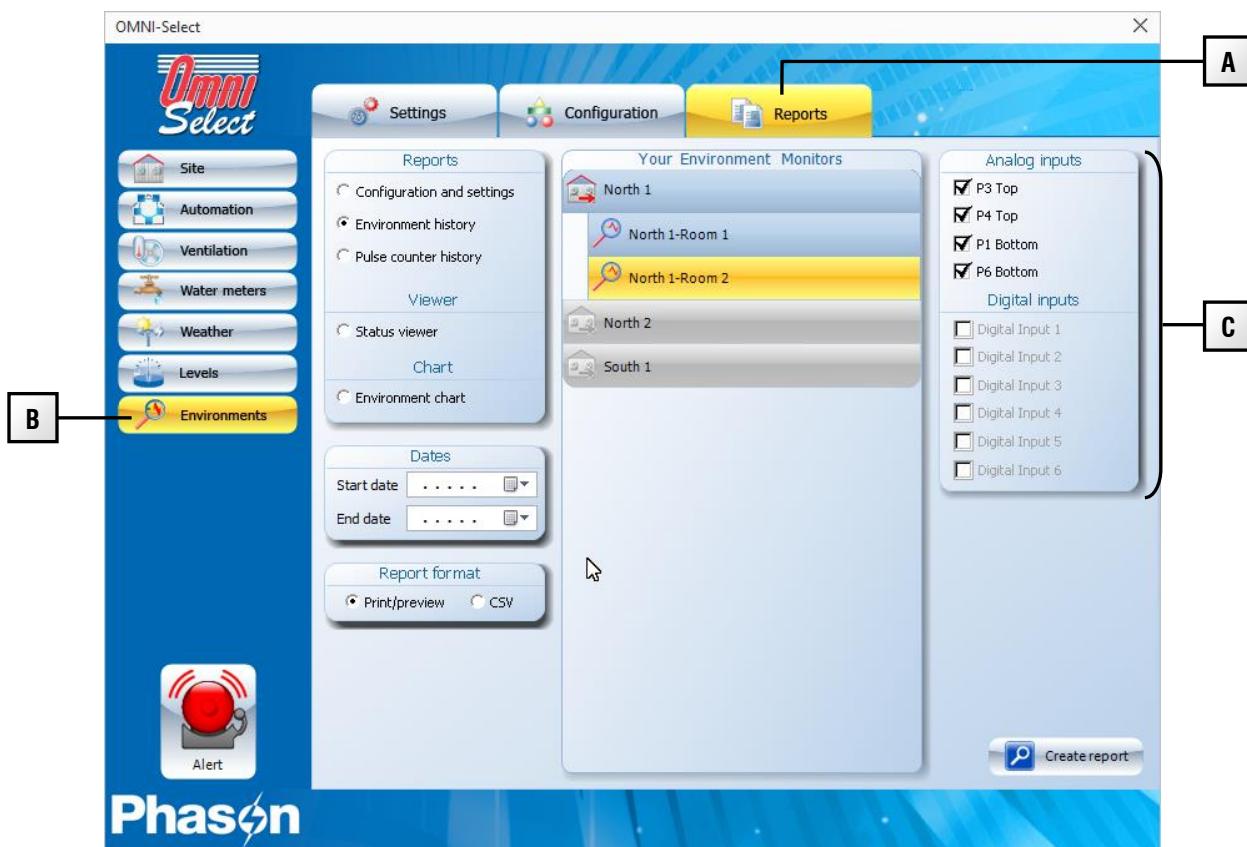
The *Settings* window is where you setup alarm conditions for each input.



- A** This button displays the *Settings* window.
- B** This button displays the settings for Select Environments.
- C** This is a list of Environment Monitors in each building at your site and where you select the device you want to set up.

For more information about the *Settings* window and setting up Environment Monitors, read **Setting alarms** on page 18.

Reports window



- A** This button displays the reports window.
- B** This button displays the available Select Environments reports.
- C** This is where you select the report and details.

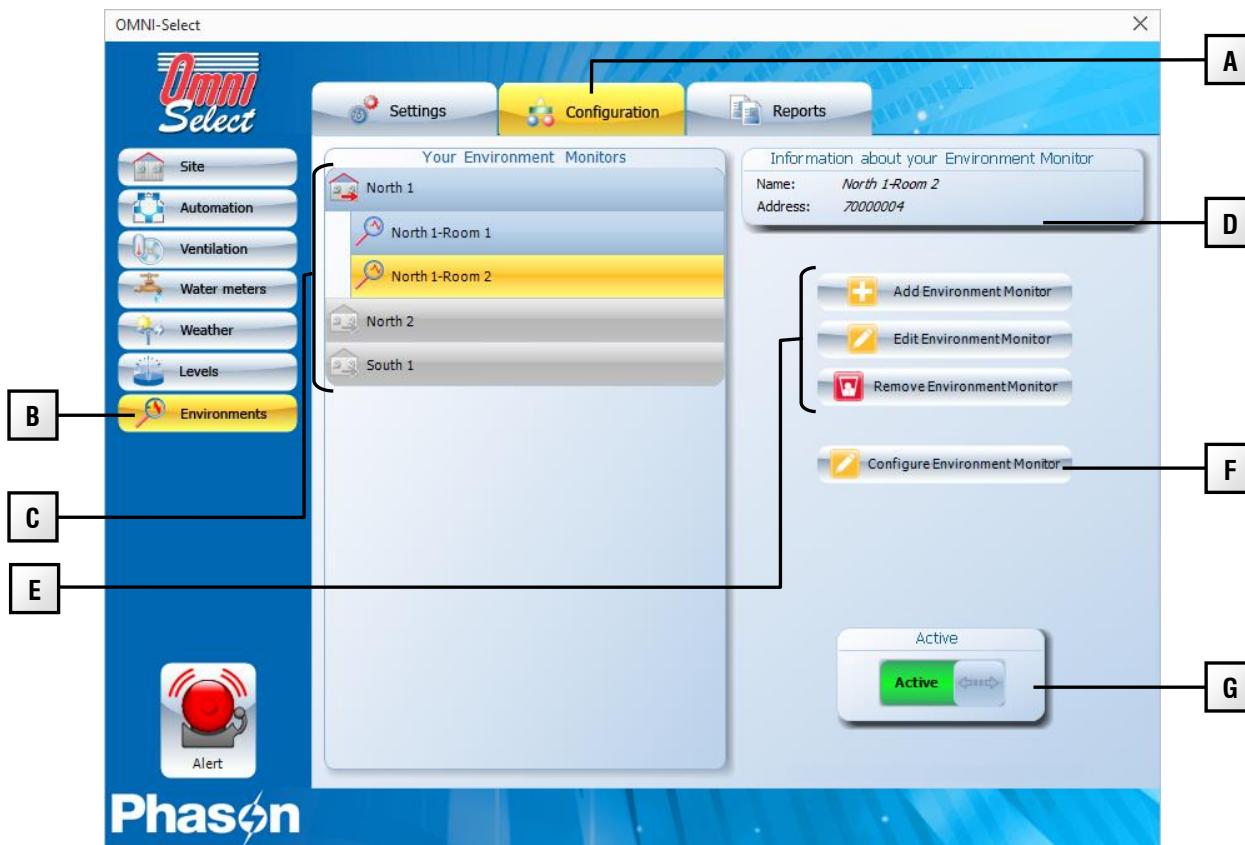
For more information about the *Reports* window, read **Creating reports** on page 28.



Chapter 2: Configuring Select Environments

Configuring Select Environments

The *Configuration* window is where you configure the structure of your site, as well as Environment Monitor options you configure seldom or only once at the beginning.



- A** This button displays the configuration window.
- B** This button displays the configuration for Select Environments.
- C** This is a list of Environment Monitors in each building at your site and where you select the device you want to configure.
- D** This is the name and address of the selected Environment Monitor.
- E**
- F**
- G**

- E** The top two buttons open the *Environment Monitor description* window, which is where you add a new Environment Monitor or edit the selected Environment Monitor. The bottom button removes the selected Environment Monitor from your system.
- F** This button opens the Environment Monitor configuration window, which is where you configure the selected Environment Monitor.
- G** This is where you activate or deactivate the selected Environment Monitor.

Adding, editing, and removing Environment Monitors

Select Environments uses an address, a unique eight-digit code, to locate and identify each Environment Monitor. Each Environment Monitor is programmed with an address before it leaves the factory. To locate the address for a specific Environment Monitor, check inside the cover. For more information, read the **LEM installation guide**.

Because remembering eight-digit codes to identify Environment Monitors is all but impossible for us humans, Select Environments makes it easier by allowing you to give each device a name. When giving a device a name, try to make the name as descriptive and useful as possible. For example, *North-Room 1*, *North-Room 2*, *South-Room 1*, and *South-Room 2* are more descriptive and useful than *LEM 1*, *LEM 2*, and so on.



- ◊ When you add a new Environment Monitor, none of the inputs are enabled. To enable inputs, you must configure the Environment Monitor. For more information, read **Configuring Environment Monitors** on page 15.
- ◊ Before you can add Environment Monitors, you must have at least one building. For information about adding buildings, see the **OMNI-Select user manual**.
- ◊ If you are using a Phason Wireless Adapter (PWA) for communication, see the **PWA installation guide**.

To add an Environment Monitor

1. In the main window, click **Configuration**, and then **Environments**.
2. Click **Add Environment Monitor**.
The *Environment Monitor description* window displays.
3. Beside *Name*, type a descriptive name (maximum 28 characters) for the Environment Monitor.
4. Beside *Address*, type the address of the new Environment Monitor, exactly as it appears on the product. For information about where to find the address, see the **LEM installation guide**.
5. Beside *Building*, select the building in which the Environment Monitor is located.
6. If you are using wireless communication, beside *Wireless adapter*, select the address of the adapter (PWA or iWire) connected to the Environment Monitor.
7. Click **OK** to save the information and return to the *Configuration* window.



When you add an Environment Monitor, its status is automatically set to *active*. If you want the Environment Monitor to be inactive, follow the **Activating and deactivating Environment Monitors** instructions below.

To edit an Environment Monitor

1. In the main window, click **Configuration**, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to edit and then click **Edit Environment Monitor**.
The Environment Monitor description window displays.
3. Make the changes.
 - ◆ Beside *Name*, type a descriptive name (maximum 15 characters) for the device.
 - ◆ Beside *Address*, type the address of the device, exactly as it appears on the product. For information about where to find the address, see the **LEM installation guide**.
 - ◆ Beside *Building*, select the building in which the device is located.
 - ◆ If you are using wireless communication, beside *Wireless adapter*, select the address of the adapter (PWA or iWire) connected to the Environment Monitor.
4. Click **OK** to save the device information and return to the *Configuration* window.

To remove an Environment Monitor



When you remove an Environment Monitor, **you permanently remove all its data**.

1. In the main window, click **Configuration**, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to remove and then click **Remove Environment Monitor**.
A warning message displays.
3. To remove the Environment Monitor, click **Yes**. To cancel and return to the previous window, click **No**.

Activating and deactivating Environment Monitors

When you add an Environment Monitor, its status is automatically set to *active*. When an Environment Monitor is active, you can configure and set up the Environment Monitor, as well as view and print charts and reports for it.

When an Environment Monitor is *inactive*, there is no communication with the device. You cannot send setting changes or collect and receive data from it. You can view and print charts and reports for it using existing data.



Deactivating devices that are not in use can help improve system performance.

To activate or deactivate a Environment Monitor

1. In the main window, click **Configuration**, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to activate or deactivate.
3. Below *Active*, click and drag the slider to the status you want.

Configuring Environment Monitors

Environment Monitors have 11 inputs. When you add a new Environment Monitor, none of the inputs are enabled. You need to configure the Environment Monitor and enable the inputs.

About the data logging interval

The logging interval is how often the Environment Monitor takes a reading from the sensors. If you set the logging interval for 10 minutes, you will get a reading for each sensor every 10 minutes. The logging interval is also the sample interval for the pulse counter. The logging interval is the same for all sensors connected to the Environment Monitor.

About the temperature input

Each Environment Monitor comes with a standard 30-foot temperature probe you can connect to the temperature (TEMP) input on the circuit board. Phason's standard 3K temperature probe monitors temperatures ranging from -49 to 122°F (-45 to 50°C). A High Temperature Probe (HTP) is available for monitoring temperatures ranging from 86 to 302°F (30 to 150°C).

Phason's standard probes are available in 1, 6, 30, 75, or 150-foot cable lengths. You can extend the cable up to 500 feet using extension cable.

About auxiliary inputs

Each Environment Monitor has three auxiliary inputs (AUX1, 2, and 3) you can use to monitor additional analog sensors.

- ◆ **3K temperature probe:** a standard Phason temperature probe, same as the TEMP input.
- ◆ **High Temperature Probe:** a High Temperature Probe (**model HTP**) monitors temperatures ranging from 86 to 302°F (30 to 150°C). HTPs come with a 6-foot cable. You can extend the cable up to 500 feet using extension cable.
- ◆ **Humidity sensor:** a Phason Relative Humidity Sensor (**model RHS or RHS-P**).
- ◆ **Static pressure sensor:** a Phason Static Pressure Sensor (**model SPS-1 or SPS-2**).
- ◆ **1K temperature probe, pH probe, and Raw voltage:** for more information, contact Phason customer support.

About the counter input

Each Environment Monitor has a pulse counter input (COUNT) you can use to monitor devices such as a water meter with pulse output.

About digital inputs

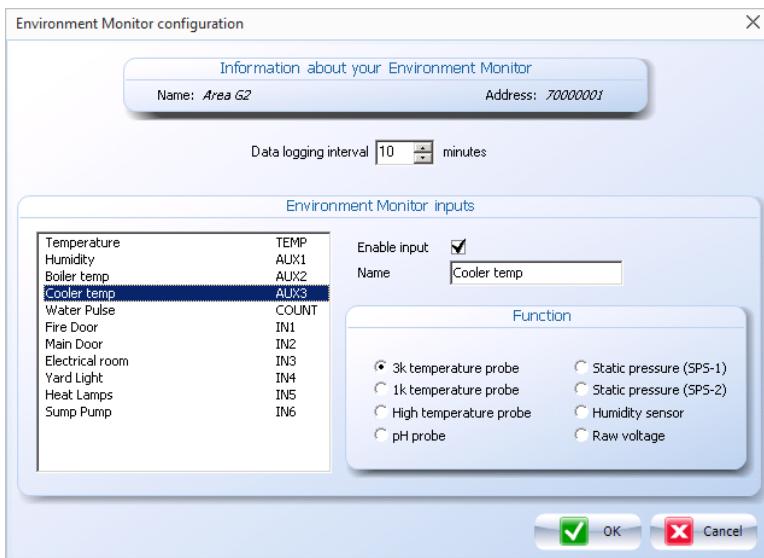
Each Environment Monitor has six digital inputs (IN1 to IN6) you can use for monitoring dry (unpowered) contacts from relays or switches, such as door contacts.

For digital inputs, you must select a normal condition. The normal condition is the position (open/low or closed/high) the switch or monitoring device will be in while the condition it monitors is normal.

For example, if you connect a magnetic door contact switch to a door and the door is normally closed, then the switch would normally be closed. In this case, you would set the normal condition to “closed”.

To configure Environment Monitors

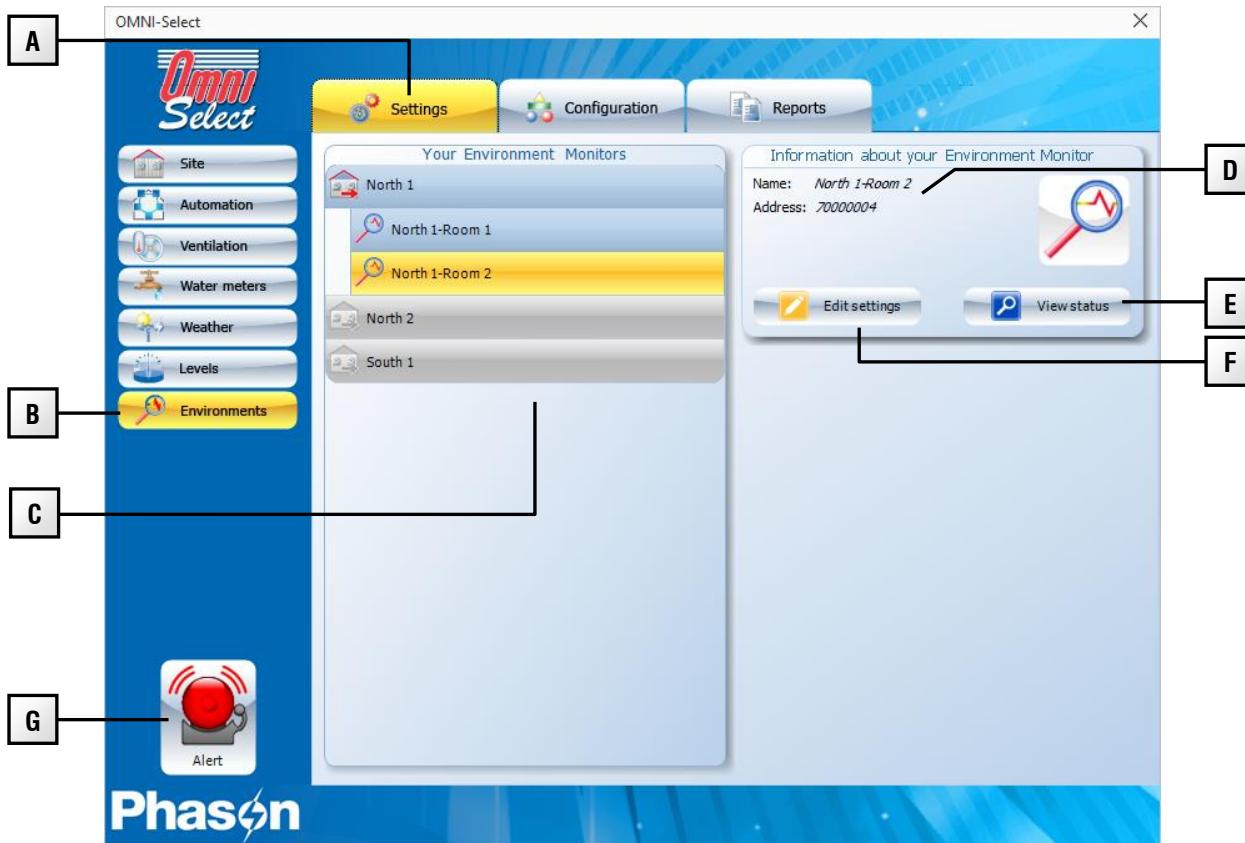
1. In the main window, click *Configuration*, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to configure.
3. Click **Configure Environment Monitor**.
The *Environment Monitor configuration* window displays.



4. Beside *Data logging interval*, select the existing value and then enter a new one, or click **Up** or **Down** to increase or decrease the interval.
5. Below *Environment Monitor inputs*, select the input you want to configure. The window displays the configuration items for the selected input.
6. Configure or make the changes to the input.
 - ◆ To enable or disable the input, select or deselect *Enable input*. There is a checkmark in the box when enabled.
 - ◆ To enter or change the name, beside *Name*, type a description for the input. The name is how you will identify the input in charts and reports.
 - ◆ Temperature only: below *Function*, select the type of probe connected to the input.
 - ◆ Auxiliary 1 to 3 only: below *Function*, select the type of sensor or equipment connected to the input.
 - ◆ Pulse counter only: below *Function*, select the type of counter.
 - ◆ Digital inputs 1 to 6 only: below *Function*, select the normal condition of the switch/dry contact.
7. Repeat steps 5 and 6 for each input you want to configure.
8. Click **OK** to save the changes and return to the *Configuration* window.

Setting alarms

The *Settings* window is where you set alarms.



- A** This button displays the *Settings* window.
- B** This button displays the settings for Select Environments.
- C** This is a list of Environment Monitors in each building at your site and where you select the Environment Monitor you want to set up.
- D** This is the name and address of the selected Environment Monitor.
- E** This button opens the *Status* window, where you can view the status of the selected Environment Monitor.
- F** This button opens the *Environment Monitor settings* window, which is where you edit the alarm settings.
- G** This button opens the Select Alert window. Select Alert is an automatic alarm condition notification system. For more information about Select Alert, visit www.phason.ca.

Programmable alarms

Select Environments has the following programmable alarms.

- ◆ High/low temperature, pulse counter, and auxiliary input alarms
- ◆ Digital input alarms
- ◆ Communication errors

Select Environments displays alarm messages in the *Communication Center* and the *Status Viewer* window. Before you set alarms, you need to be familiar with the following terms.



An alarm needs to be acknowledged and the condition must return to normal before it will trigger again.

Fault condition

A fault condition is a condition outside of the normal range of operation. For temperature, pulse count, and auxiliary inputs, the normal range is any value between the low and high alarm settings.

For digital inputs, the normal condition is either open/low or closed/high, whichever you selected in the *Environment Monitor configuration* window. A fault condition is anything that is not normal.

Fault duration

Fault duration is the amount of time a fault condition must be present before it becomes an alarm condition. The minimum fault duration is 1 second; the maximum is 30 minutes. Fault durations help prevent unnecessary alarms.

For example, on a digital input that is monitoring a door contact on a walk-in cooler, you would not want an alarm each time someone opened the door. However, you might want an alarm if the door was left open for more than a few minutes. In this case, you could set the fault duration for three minutes.

Alarm condition

An alarm condition is a fault condition that has been *constantly* present for at least the specified fault duration.



Pulse counter alarms have different settings. For more information, see **Setting pulse counter alarms** on page 21.

Communication errors

For each Environment Monitor, you have the option to enable communication **alarms** or **warnings**. Communication errors occur if an active device, such as an Environment Monitor, becomes unresponsive.

- ◆ When you enable communication **alarms** and there is a communication error, OMNI Select displays a red X in the Communication Center. If you have **Select Alert**, the program dials out.
- ◆ When you enable communication **warnings** and there is a communication error, OMNI Select displays a yellow ! In the Communication Center. If you have **Select Alert**, the program **does not** dial out.

Setting temperature or auxiliary alarms

Separate high and low alarms are available for each of the temperature and auxiliary inputs.

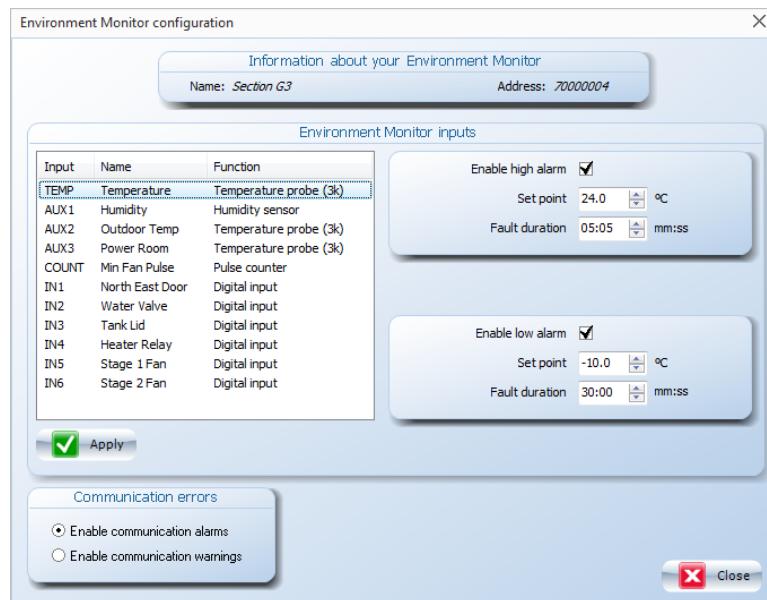


Any changes you make to the alarm settings do not take effect until you close the *Environment Monitor settings* window.

To set temperature or auxiliary alarms

1. In the main window, click *Settings*, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to set up.
3. Click **Edit settings**.

The *Environment Monitor settings* window displays. By default, the TEMP input is selected.



4. Below *Input*, select the input you want to set up.
The window displays the settings for the selected input.
5. Make the changes to the alarm settings.
 - ◆ To enable or disable an alarm, select or deselect *Enable...* beside the alarm you want to change. There is a checkmark in the box when enabled.
 - ◆ To change a set point, select the existing value and then enter a new one, or click **Up** or **Down** beside the set point you want to change.
 - ◆ To change a fault duration, select the existing value and then enter a new one, or click **Up** or **Down** beside the duration you want to change.
6. Click **Apply** to save the settings for the input.
7. Repeat steps 4 to 6 for each input you want to set up. For information about setting pulse counter alarms, read **Setting pulse counter alarms** below. For information about setting digital input alarms, read **Setting digital input alarms** on page 23.
8. Click **Close** to save the changes and return to the main window.

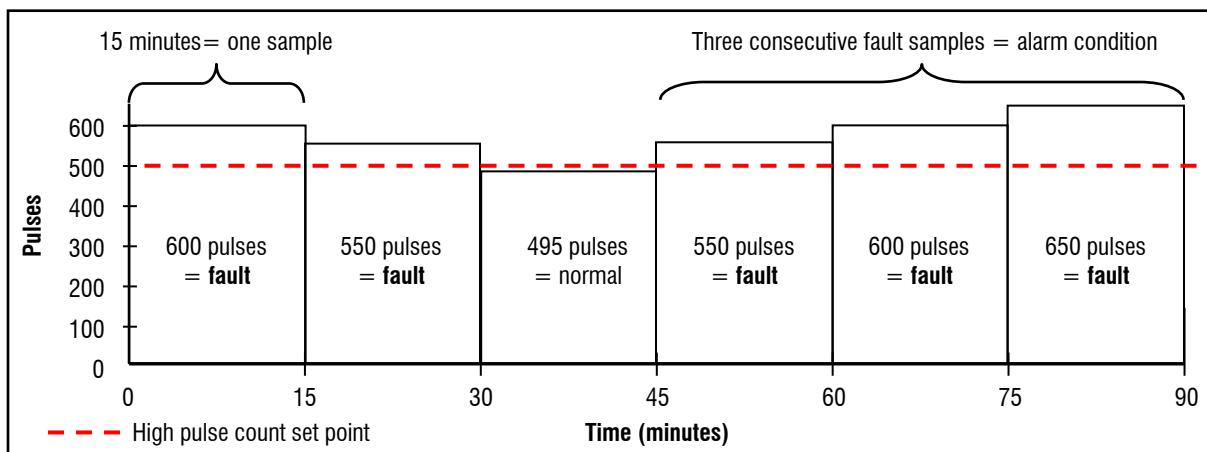
Setting pulse counter alarms

You can set high and low alarms for the pulse counter input. Pulse counter alarms have different settings than the other alarms.

Consecutive fault samples

The consecutive fault samples setting is the number of consecutive fault durations (samples) that must have a fault condition before an alarm condition occurs.

For example, you set the logging interval to 15 minutes, the high pulse count set point to 500 pulses, and the consecutive fault samples to 3. If there are 3 consecutive samples with more than 500 pulses, there will be an alarm condition.

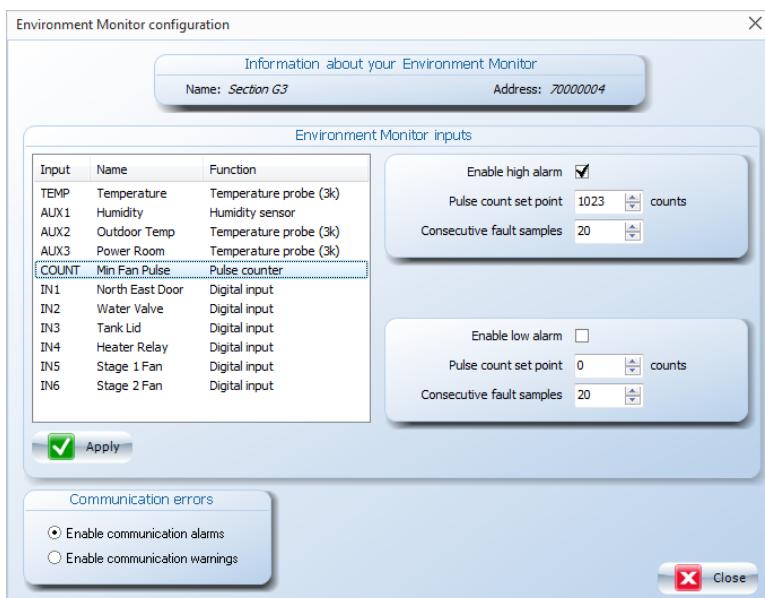




To set the logging interval, go to the Environment Monitor configuration. For more information, read **Configuring Environment Monitors** on page 15.

To set pulse counter alarms

1. In the main window, click *Settings*, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to set up.
3. Click **Edit settings**.
The *Environment Monitor settings* window displays.
4. Below *Input*, select **COUNT**.
The window displays the settings for the pulse counter input.



5. Make the changes to the alarm settings.
 - ◆ To enable or disable an alarm, select or deselect *Enable...* beside the alarm you want to change. There is a checkmark in the box when enabled.
 - ◆ To change a set point, select the existing value and then enter a new one, or click **Up** or **Down** beside the set point you want to change.
 - ◆ To change a consecutive fault samples, select the existing value and then enter a new one, or click **Up** or **Down** beside the setting you want to change.
6. Click **Apply** to save the settings for the input.
7. Repeat steps 4 to 6 for each input you want to set up. For information about setting digital input alarms, read **Setting digital input alarms** on page 23. For information about setting analog alarms, read **Setting temperature or auxiliary alarms** on page 20.
8. Click **Close** to save the changes and return to the main window.

Setting digital input alarms

Because digital inputs read only one state or the other, for example opened or closed, they have only one alarm instead of high or low.

To set digital input alarms

1. In the main window, click *Settings*, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to set up.
3. Click **Edit settings**.
The *Environment Monitor settings* window displays.
4. Below *Input*, select the input you want to set up.
The window displays the settings for the selected input.



5. Make the changes to the alarm settings.
 - ◆ To enable or disable an alarm, select or deselect *Enable alarm*. There is a checkmark in the box when enabled.
 - ◆ To change the fault duration, beside *Fault duration*, select the existing value and then enter a new one, or click **Up** or **Down**.
6. Click **Apply** to save the settings for the input.
7. Repeat steps 4 to 6 for each input you want to set up. For information about setting pulse counter alarms, read **Setting pulse counter alarms** on page 21. For information about setting analog alarms, read **Setting temperature or auxiliary alarms** on page 20.
8. Click **Close** to save the changes and return to the main window.



Chapter 3: Analyzing data

Select Environments reports

One of the great advantages of Select Environments is the detailed reports that are available. OMNI-Select reports are available in preview/PDF or CSV format.

Preview/PDF

These reports display using OMNI-Select's built-in Report Preview window. From there, you can print or save reports as a PDF (portable document format).

The screenshot shows a Windows-style application window titled "Report Preview: Environment Configuration and Settings Report". The window has a toolbar with icons for Print, Save, and various navigation buttons. The main content area displays a report titled "Configuration and Settings Report" for "Awesome Inc." It includes the company logo, environment monitor details (North 1-Room 1, address 76543210, building North 1), and reporting parameters (all durations in mm:ss, all temperatures in °F, data logging interval 10:00). The report is divided into sections: "Analog inputs" and "Counter input", each with tables showing alarm settings.

Low alarm settings				High alarm settings				
Input	Description	Function	Set point	Fault duration	Enabled	Set point	Fault duration	Enabled
TEMP	Temperature	3K temp.	30.0	05:00	Yes	77.0	05:00	No
AUX1	Humidity	Humidity	20	05:00	No	80	05:00	Yes
AUX2	Chiller temp.	3K temp.	14.0	05:00	Yes	50.0	05:00	Yes
AUX3	Fridge	3K temp.	38.0	05:00	No	50.0	05:00	Yes

Low alarm settings				High alarm settings				
Input	Description	Logging interval	Set point	Consecutive samples	Enabled	Set point	Consecutive samples	Enabled
COUNT	Water pulse	30:00	200	1	No	1023	1	Yes

CSV

You can import CSV reports into a third-party reporting, database, or spreadsheet program, or e-mail them off-site for evaluation. CSV reports are not suitable for normal viewing.

Report descriptions

- ◆ Configuration and Settings Report (below)
- ◆ Environment History Report (on page 26)
- ◆ Pulse Counter History Report (on page 27)

Configuration and Settings Report

Configuration and Settings Reports provide an easy reference for configuration and settings and can be a backup in case of data loss. The report lists the current configuration and settings for the selected Environment Monitor.

Configuration and Settings Reports are available only in preview/PDF format.

Configuration and Settings Report																																																												
Awesome Inc																																																												
Environment Monitor:	North 1-Room 1																																																											
Address:	76543210																																																											
Building:	North 1																																																											
Report created:	mm/dd/yyyy hh:mm																																																											
All durations in minutes and seconds (mm:ss) All temperatures in °F Data logging interval: 10:00																																																												
																																																												
Analog inputs																																																												
<table border="1"> <thead> <tr> <th rowspan="2">Input</th> <th rowspan="2">Description</th> <th rowspan="2">Function</th> <th colspan="3">Low alarm settings</th> <th colspan="3">High alarm settings</th> </tr> <tr> <th>Fault</th> <th>Set point</th> <th>duration</th> <th>Enabled</th> <th>Fault</th> <th>Set point</th> <th>duration</th> <th>Enabled</th> </tr> </thead> <tbody> <tr> <td>TEMP</td> <td>Temperature</td> <td>3K temp.</td> <td>30.0</td> <td>05:00</td> <td>Yes</td> <td>77.0</td> <td>05:00</td> <td>No</td> </tr> <tr> <td>AUX1</td> <td>Humidity</td> <td>Humidity</td> <td>20</td> <td>05:00</td> <td>No</td> <td>80</td> <td>05:00</td> <td>Yes</td> </tr> <tr> <td>AUX2</td> <td>Chiller temp.</td> <td>3K temp.</td> <td>14.0</td> <td>05:00</td> <td>Yes</td> <td>50.0</td> <td>05:00</td> <td>Yes</td> </tr> <tr> <td>AUX3</td> <td>Fridge</td> <td>3K temp.</td> <td>38.0</td> <td>05:00</td> <td>No</td> <td>50.0</td> <td>05:00</td> <td>Yes</td> </tr> </tbody> </table>								Input	Description	Function	Low alarm settings			High alarm settings			Fault	Set point	duration	Enabled	Fault	Set point	duration	Enabled	TEMP	Temperature	3K temp.	30.0	05:00	Yes	77.0	05:00	No	AUX1	Humidity	Humidity	20	05:00	No	80	05:00	Yes	AUX2	Chiller temp.	3K temp.	14.0	05:00	Yes	50.0	05:00	Yes	AUX3	Fridge	3K temp.	38.0	05:00	No	50.0	05:00	Yes
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AUX2	Chiller temp.	3K temp.	14.0	05:00	Yes	50.0	05:00	Yes																																																				
AUX3	Fridge	3K temp.	38.0	05:00	No	50.0	05:00	Yes																																																				
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Digital inputs																																																												
<table border="1"> <thead> <tr> <th>Input</th> <th>Description</th> <th>Normal condition</th> <th>Fault duration</th> <th>Alarm enabled</th> </tr> </thead> <tbody> <tr> <td>IN1</td> <td>Fire door</td> <td>Open</td> <td>00:08</td> <td>Yes</td> </tr> <tr> <td>IN2</td> <td>Main door</td> <td>Open</td> <td>00:05</td> <td>Yes</td> </tr> <tr> <td>IN3</td> <td>Heat mat master</td> <td>Closed</td> <td>05:00</td> <td>No</td> </tr> <tr> <td>IN4</td> <td>Yard light</td> <td>Closed</td> <td>05:00</td> <td>No</td> </tr> <tr> <td>IN5</td> <td>Heat lamps</td> <td>Closed</td> <td>05:00</td> <td>No</td> </tr> <tr> <td>IN6</td> <td>Sump pump</td> <td>Open</td> <td>00:02</td> <td>No</td> </tr> </tbody> </table>								Input	Description	Normal condition	Fault duration	Alarm enabled	IN1	Fire door	Open	00:08	Yes	IN2	Main door	Open	00:05	Yes	IN3	Heat mat master	Closed	05:00	No	IN4	Yard light	Closed	05:00	No	IN5	Heat lamps	Closed	05:00	No	IN6	Sump pump	Open	00:02	No																		
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IN5	Heat lamps	Closed	05:00	No																																																								
IN6	Sump pump	Open	00:02	No																																																								

Information about the report

The configuration and settings for the Environment Monitor, sorted by input

Environment History Report

Environment History Reports give you exact data for the period of time you choose. They are an excellent way to keep historical records of environmental conditions and compare them over time.

You select an Environment Monitor, a date range, and up to five inputs. There will be an entry in the report for each time the Environment Monitor recorded data. Alarms are shown in red.

Environment History Reports are available in preview/PDF and CSV formats.

Environment History Report

Awesome Inc

Environment Monitor: North 1-Room 1
Address: 76543210
Building: North 1
Start date: mm/dd/yyyy
End date: mm/dd/yyyy
Report created: mm/dd/yyyy hh:mm

mm/dd/yyyy

Time	Temperature (°F)	Humidity (%)	Heater Relay	Stage 1 Fan
00:00:00	67.7	35	Closed/high	Closed/high
00:10:00	67.6	34	Closed/high	Closed/high
00:20:00	67.6	34	Closed/high	Closed/high
00:30:00	67.6	34	Closed/high	Closed/high
00:40:00	67.6	18	Closed/high	Closed/high
00:50:00	67.6	17	Closed/high	Closed/high
01:00:00	67.6	17	Closed/high	Closed/high
01:10:00	67.6	16	Closed/high	Closed/high
01:20:00	67.6	16	Closed/high	Closed/high
01:30:00	67.6	15	Closed/high	Closed/high
01:40:00	67.6	15	Closed/high	Closed/high
01:50:00	67.6	14	Closed/high	Closed/high
02:00:00	67.6	13	Closed/high	Closed/high
02:10:00	67.6	12	Closed/high	Closed/high
02:20:00	67.6	11	Closed/high	Closed/high
02:30:00	67.6	10	Closed/high	Closed/high
02:40:00	67.6	9	Closed/high	Closed/high
02:50:00	67.6	8	Closed/high	Closed/high
03:00:00	67.6	6	Closed/high	Closed/high
03:10:00	67.6	5	Closed/high	Closed/high
03:20:00	67.6	3	Open/low	Closed/high
03:30:00	67.4	3	Open/low	Closed/high
03:40:00	67.4	3	Open/low	Closed/high
03:50:00	67.3	2	Open/low	Closed/high
04:00:00	67.3	2	Open/low	Closed/high
04:10:00	67.3	2	Open/low	Closed/high

Information about the report

The data for the time period, sorted by date and time.

Alarm conditions are in red.

Pulse Counter History Report

The Pulse Counter History Report displays all pulse count data for the date range you choose. There will be an entry in the report for each time the Environment Monitor recorded data. Alarms are shown in red.

Pulse Counter History Reports are available only in preview/PDF format.

Environment Pulse Counter Report

Awesome Inc

Environment Monitor: North 1-Room 1
Address: 76543210
Building: North 1
Start date: mm/dd/yyyy
End date: mm/dd/yyyy
Report created: mm/dd/yyyy hh:mm

mm/dd/yyyy

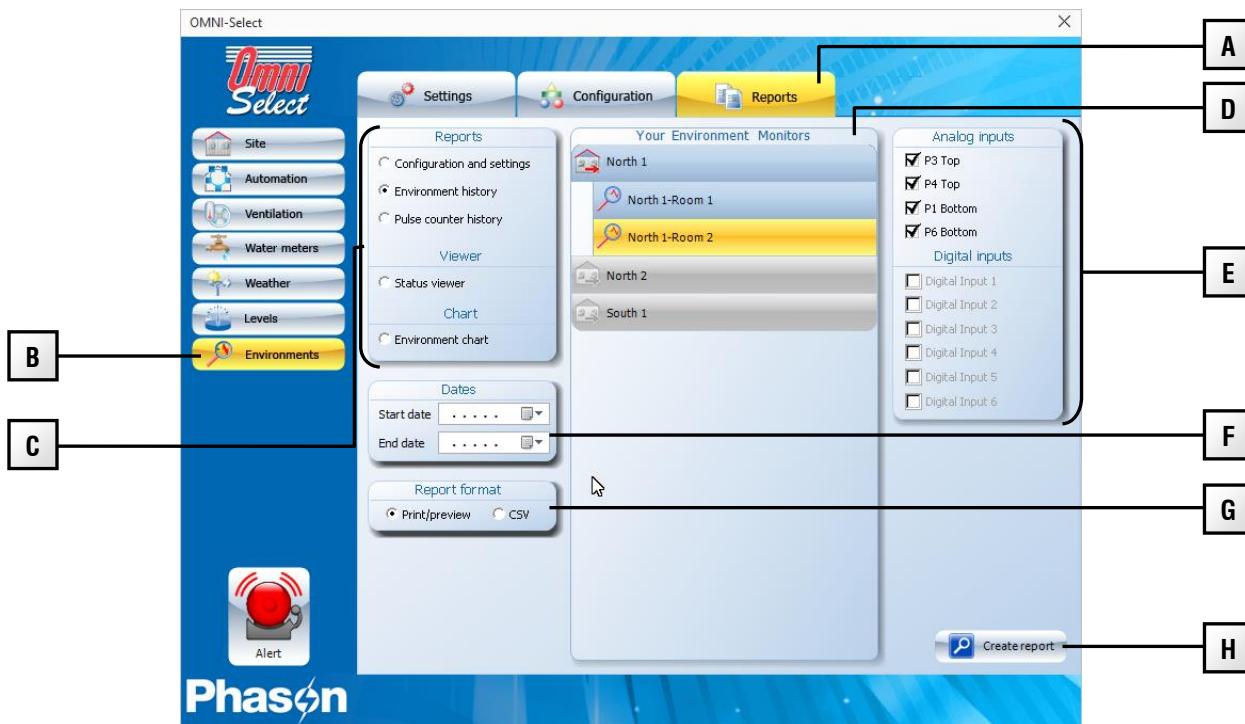
Time	Min Fan Pulse (#/interval)
00:00:00	750
00:10:00	750
00:20:00	23
00:30:00	23
00:40:00	23
00:50:00	23
01:00:00	23
01:10:00	23
01:20:00	23
01:30:00	23
01:40:00	23
01:50:00	23
02:00:00	23
02:10:00	23
02:20:00	1030
02:30:00	1030
02:40:00	1030
02:50:00	1030
03:00:00	1030
03:10:00	1030
03:20:00	700
03:30:00	700
03:40:00	700
03:50:00	700
04:00:00	700
04:10:00	700
04:20:00	1030

Information about the report

The data for the time period, sorted by date and time.

Alarm conditions are in red.

Creating reports



- A** This button displays the *Reports* window.
- B** This button displays the available Select Environments chart, viewer, and reports.
- C** This is where you select what you want to view or create.
- D** This is where you to select the Environment Monitor.
- E** This is where you to select the inputs for the Environment History Report.
- F** If required, this is where you select the date range.
- G** This is where you to select the format for the Environment History Report.
- H** This button creates and/or displays the chart, viewer, or report.

Formats, dates, and other information

The following table shows the formats available, date type, and other information required for the chart, viewer, and reports.

Name	Format	Date type	Other information required
Configuration and Settings Report	Preview/PDF	Current	Environment Monitor
Environment History Report	Preview/PDF/CSV	Date range	Environment Monitor, inputs
Pulse Counter History Report	Preview/PDF	Date range	Environment Monitor
Status viewer	Viewer	Current	Environment Monitor
Environment chart	Chart	Date range	Environment Monitor

To create reports

1. In the main window, click **Reports**, and then **Environments**.
2. Below *Reports*, select the type of report you want to create.
The window updates and adds any additional information required to create the report.
3. Below *Your Environment Monitors*, select the Environment Monitor you want in the report.
4. Select the remaining details.
 - ◆ If you are creating a report that requires a date range, below *Dates*, select the start and end dates. For more information, read **Selecting dates** on page 30.
 - ◆ If you are creating an Environment History Report, below *Inputs*, deselect any inputs you do not want in the report and then select the ones you want. You can select *up to five inputs*.
 - ◆ If you are creating an Environment History Report and want to export the data to third-party software, below *Report format*, select *CSV*.
5. Click **Create**.
 - ◆ If you created a printable report, OMNI-Select displays your report in the *Report Preview* window. From here you can print or save your report by clicking the appropriate button.
 - ◆ If you created a CSV report, the *Save As* window displays so that you can select a location and save your report. After saving your report, it displays in your default editor.



- ◊ In Windows 7, the default reports directory is
C:\Users\<username>\Documents\Phason\OmniSelect\Reports.
<username> is the name you use to log on to your computer.
- ◊ Reports print to the default printer using the default settings.

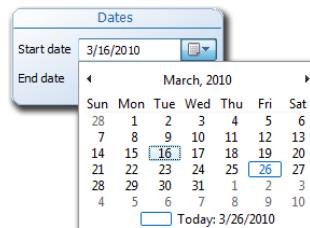
6. Click **Close** to return to the *Reports* window.

Selecting dates

Select Environments history reports and charts require a date range.

To select date ranges

1. Beside *Start date*, click ▾.
The date selector displays.
2. Select a start date:
 - ◆ To move backward or forward through the months, click ▲ or ▼.
 - ◆ To select a specific month, click the month on the calendar and then select the month you want.
 - ◆ To move forward and backward through the years, double-click the year on the calendar and then select the year you want.
3. Repeat steps 1 and 2 for the end date.



Select Environments charts

Environment charts are useful for tracking problems that have occurred, analyzing the effects of different ventilation strategies, and monitoring environmental conditions.

For example, you can compare temperatures from probes located in different areas of a room to see how the temperature compares at different times of the year. Using this information, you can make any necessary adjustments to your ventilation strategy to help offset any time-of-year effects.

Environment charts are very versatile. You can compare inputs (sensors), including up to 2 different types of analog data on a single chart. For example, you can compare temperature and humidity values at the same location in a room. The ability to compare the humidity and temperature information can help you develop and maintain an effective ventilation strategy.

One of the most important features of Environment charts is the ability to view the cause and effect of different inputs. For example, with digital inputs you can see when a door has been opened. Using the Environment chart, you can see how opening the door affects other conditions such as temperature, humidity, and static pressure.

Another example is connecting a digital input to a heater or single-stage fan. You can determine the run time and compare it to temperature in the room.

Viewing charts



- A** This is a list of Environment Monitors in each building at your site and where you select the Environment Monitor you want to view.
- B** This is the chart for the selected group and date range. You can zoom in and scroll along the chart.
- C** This is the legend for the chart. It shows which color represents which input.
- D** This is where you select the date range.
- E** This button refreshes the chart and leaves the zoom level the same. Refresh the chart if you change the date range.
- F** This allows you to change the width of the lines in the chart.
- G** This is where you select the inputs. You can display up to two different types of analog inputs and up to six digital inputs on the same chart.
- H** This button prints the chart.
- I** This button resets the zoom/magnification.



- ◊ Environment charts display **all** state changes for digital inputs.
- ◊ You cannot save Environment charts, but you can view them again as long as the information remains in the database.

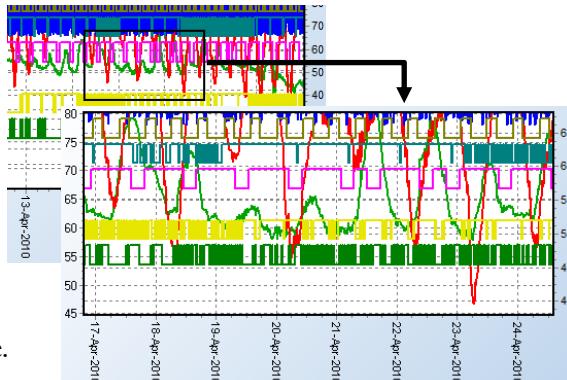
To view charts

1. In the main window, click **Reports**, and then **Environments**.
2. Below *Chart*, select *Environment chart*.
The window updates.
3. Below *Dates*, select the start and end date for the chart. For more information, read **Selecting dates** on page 30.
4. Below *Your Environment Monitors*, select the Environment Monitor you want in the chart.
5. Click **Show chart**.
The Environment chart displays using the inputs that were selected the previous time.
6. Make any changes to the chart.
 - ◆ To change the inputs, below *Inputs*, deselect any inputs you do not want to view and then select the ones you want to view.
As you select or deselect inputs, the chart updates.
 - ◆ To change the Environment Monitor, below *Your Environment Monitors*, select the one you want to view.
As you select different Environment Monitors, the chart updates.
 - ◆ To change the date range, below *Dates*, select a new start and/or end date and then click **Refresh chart**.
The chart updates but if you zoomed in on the chart, the zoom remains the same.
7. Click **Close** to return to the *Reports* window.

To zoom and pan charts

You can zoom in, zoom out, and scroll along a chart.

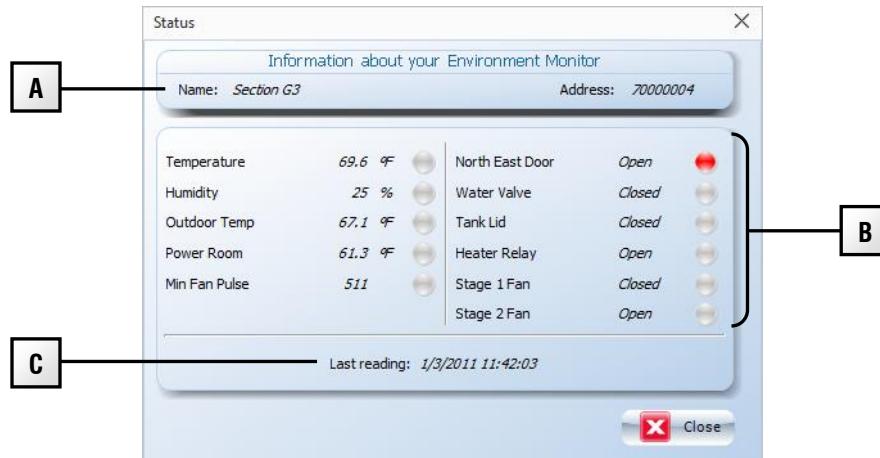
- ◆ **To zoom in**, click and drag to select the area you want to magnify and then release the mouse button. A chart magnifies the area you selected.
- ◆ **To zoom out**, click on the chart, drag to the top-left and then release the mouse button, or click **Zoom out**. The chart returns to normal magnification.
- ◆ **To scroll along**, right-click the chart and drag the mouse in the direction you want the chart to move.



You can make the chart larger or smaller by left clicking the bottom-right corner of the window and then dragging.

Status viewer

The *Status* window provides "information at a glance" so you can quickly see if there are any problems.



- A** This is the name and address of the Environment Monitor you are viewing.
- B** This area displays information for each input. When conditions are normal, the indicators are gray. If there is a fault condition for an input, its indicator is red.
- C** This is the time of the last reading/status.

To view the status of an Environment Monitor from the **Settings** window

1. In the main window, click **Settings**, and then **Environments**.
2. Below *Your Environment Monitors*, select the Environment Monitor you want to view.
3. Click **View status**.
The *Status* window displays.
4. Click **Close** to return to the *Reports* window.

To view the status of an Environment Monitor from the **Reports** window

1. In the main window, click **Reports**, and then **Environments**.
2. Below *Viewer*, select *Status viewer*.
The window updates.
3. Below *Your Environment Monitors*, select the Environment Monitor you want to view.
4. Click **Show viewer**.
The *Status* window displays.
5. Click **Close** to return to the *Reports* window.

Appendices



Appendix A: Environment Monitor worksheet

Use the worksheets to help you configure and setup Environment Monitors. The first worksheet is an example of how to fill in the information.

- ◊ There are two copies of the worksheet. Make additional copies of the blank worksheets before filling them in.
- ◊ For more information, read **Chapter 2: Configuring Select Environments** on page 12.

Building	<i>North 1</i>	Address	12345678	Logging interval	:	<i>All durations in mm:ss</i>	
Temperature and auxiliary inputs				Low alarm settings		High alarm settings	
Input	Description	Function		Set point	Fault duration	Set point	Fault duration
TEMP	<i>Office temp.</i>	<i>3K probe</i>		60	30:00	90	15:00
AUX1	<i>Outdoor temp.</i>	<i>Temperature</i>		—	—	—	—
AUX2	<i>Generator temp.</i>	<i>high temp</i>		60	20:00	200	5:00
AUX3	<i>Plenum humidity</i>	<i>humidity</i>		40	30:00	90	30:00
Pulse counter input				Low alarm settings		High alarm settings	
Input	Description			Counts	Consecutive fault samples	Counts	Consecutive fault samples
COUNT	<i>Main water</i>			—	—	50	2
Digital inputs							
Input	Description	Normal condition		Fault duration			
IN1	<i>Back door</i>	<i>closed</i>		1:30			
IN2	<i>Office door</i>	<i>closed</i>		5:00			
IN3	<i>Main door</i>	<i>closed</i>		5:00			
IN4	<i>Cooler door</i>	<i>closed</i>		2:00			
IN5	<i>Water pressure</i>	<i>open</i>		15:00			
IN6	—	—		—			

Building	Address	Logging interval	All durations in mm:ss			
Temperature and auxiliary inputs			Low alarm settings		High alarm settings	
Input	Description	Function	Set point	Fault duration	Set point	Fault duration
TEMP			:	:	:	:
AUX1			:	:	:	:
AUX2			:	:	:	:
AUX3			:	:	:	:
Pulse counter input			Low alarm settings		High alarm settings	
Input	Description		Counts	Consecutive fault samples	Counts	Consecutive fault samples
COUNT						
Digital inputs			Normal condition			
Input	Description	Normal condition	Fault duration			
IN1			:			
IN2			:			
IN3			:			
IN4			:			
IN5			:			
IN6			:			

Building		Address	Logging interval	:	All durations in mm:ss	
Temperature and auxiliary inputs			Low alarm settings		High alarm settings	
Input	Description	Function	Set point	Fault duration	Set point	Fault duration
TEMP			:	:	:	:
AUX1			:	:	:	:
AUX2			:	:	:	:
AUX3			:	:	:	:
Pulse counter input			Low alarm settings		High alarm settings	
Input	Description		Counts	Consecutive fault samples	Counts	Consecutive fault samples
COUNT						
Digital inputs			Normal condition			
Input	Description		Fault duration			
IN1			:			
IN2			:			
IN3			:			
IN4			:			
IN5			:			
IN6			:			

Building	Address	Logging interval	All durations in mm:ss			
Temperature and auxiliary inputs			Low alarm settings		High alarm settings	
Input	Description	Function	Set point	Fault duration	Set point	Fault duration
TEMP			:	:	:	:
AUX1			:	:	:	:
AUX2			:	:	:	:
AUX3			:	:	:	:
Pulse counter input			Low alarm settings		High alarm settings	
Input	Description		Counts	Consecutive fault samples	Counts	Consecutive fault samples
COUNT						
Digital inputs			Normal condition			
Input	Description	Normal condition	Fault duration			
IN1			:			
IN2			:			
IN3			:			
IN4			:			
IN5			:			
IN6			:			

Building		Address	Logging interval	:	All durations in mm:ss	
Temperature and auxiliary inputs			Low alarm settings		High alarm settings	
Input	Description	Function	Set point	Fault duration	Set point	Fault duration
TEMP			:	:	:	:
AUX1			:	:	:	:
AUX2			:	:	:	:
AUX3			:	:	:	:
Pulse counter input			Low alarm settings		High alarm settings	
Input	Description		Counts	Consecutive fault samples	Counts	Consecutive fault samples
COUNT						
Digital inputs			Normal condition			
Input	Description	Normal condition	Fault duration			
IN1			:			
IN2			:			
IN3			:			
IN4			:			
IN5			:			
IN6			:			

Appendix B: Troubleshooting

- ◆ If you are having problems using Select Environments, look up the problem in the table below and then follow the instructions to resolve the problem.
- ◆ If you have a problem that is not listed here, try to determine what might be causing the problem.
- ◆ If you cannot resolve the problem, call your dealer or Phason's Customer Support (read **Service and technical support** at the front of the manual).

Problem/message	Possible cause	Resolution
"Unable to determine status" in <i>Status</i> window	OMNI-Select is not receiving data from the Local Environment Monitor	<ul style="list-style-type: none"> ◊ Make sure the LEM address is correct. For more information, read Adding, editing, and removing Environment Monitors on page 13. ◊ If you are using wireless communication, make sure the correct wireless address is selected. For more information, read Adding, editing, and removing Environment Monitors. ◊ Make sure the unit is properly wired, including the communication wiring. For more information, read the <i>Troubleshooting</i> section of the OMNI-Select user manual.
Digital input alarms are the opposite state of what is expected	Incorrect <i>normal</i> state	<ul style="list-style-type: none"> ◊ Change the normal condition for the digital inputs. For more information, read Setting digital input alarms on page 23.

Appendix C: Automatically start OMNI Select after a power outage

These instructions explain how to configure your computer so that OMNI Select can automatically start and collect data after a power outage. For this to happen, two things must happen.

1. The computer must automatically power on.
2. Windows must automatically log on.

To configure your computer to automatically start after a power outage

1. Restart your computer and then press DELETE repeatedly immediately after it powers on. This should take you to the BIOS.
NOTE: Some models of computers use F2, F10, or F12 instead.
2. Look for a **Power** or **Advanced** menu/page for a power failure setting. It might be called **Restore on AC/Power Loss, AC Power Recovery, After Power Failure**, or something similar.
3. Change the setting to **ON**.
4. Save the changes and then exit the BIOS.

To configure Windows to automatically log on

These instructions are for Windows Vista, 7, and 8. Windows XP is not supported.

1. Click **Start** or press  + R.
2. Type `netplwiz` and then press ENTER.
The User Accounts window displays.
3. On the **Users** tab, deselect/remove the checkmark next to *Users must enter a user name and password to use this computer*.
4. Click **OK**.
The Automatically Log on window displays.
5. Type the user name and password you want to use to automatically log on to Windows and then click **OK**.
6. Restart the computer and make sure Windows automatically logs on.

Appendix D: Glossary

alarm condition	An alarm condition is a fault condition that has been consistently present for at least the <i>fault duration</i> .
analog input	An analog input monitors a range of voltage or resistance and then converts the values into a unit of measure. Examples of analog measurements include temperature and humidity. Each Environment Monitor has four analog inputs.
consecutive fault samples	Consecutive fault samples is the number of consecutive sample durations (samples) that must have a fault condition before an alarm condition occurs.

CSV	Comma separated value A CSV file is a data file consisting of fields and records stored as text. The fields are separated from each other by commas. You can import CSV files into most databases and spreadsheet programs.
data logging interval	The data logging interval is how often the Environment Monitor takes a reading from the sensors.
digital input	A digital input monitors two distinct values, such as ON or OFF. For example, a digital input can monitor switch contacts that are usually open (very high resistance) for one state and closed (very low resistance) for the second state.
dry contact relay	A dry contact relay is a two-position switch that is isolated from any powered circuit.
fault condition	A fault condition is a condition outside of the defined "normal range". For the temperature, humidity, and pulse count inputs, the normal range is any value between the low and high alarm settings. For the digital inputs, the normal condition is either open/low or closed/high, whichever is selected in the <i>Environment Monitor configuration</i> window.
fault duration	Fault duration is the amount of time a fault condition must be present before it becomes an alarm condition. Fault durations help prevent unnecessary alarms. For example, on a digital input that monitors a door contact on the semen cooler, you would not want an alarm each time someone opened the door. However, you would want an alarm if the door were left open for more than a few minutes. In this case, you would set the fault duration for three minutes.

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